GUREVICH, M.I. [Hurevych, M.I.]; BEFSHTEYN, S.A.; GOLOV, D.A. [Holov, P.G.]

Device for the synchronous recording of changes in cxygen tension and tissue blood stream. Fiziol. zhur. [Ukr.] ll no.6:840-844, N-D '65. (MIRA 19:1)

1. Laboratoriya fiziologii krovoobrashcheniya Instituta fiziologii im. Bogomol'tsa AN UkrSSR, Kiyev.

EWI(d)/EWT(1)/EWP(m)/EWT(m)/EWP(w)/EWP(k) WW/EM/GD ACC NR. AT6016794 SOURCE CODE: UR/0000/65/000/000/0229/0235 (N)AUTHOR: Gurevich, M. I. ORG: Moscow Institute of Railroad Transportation Engineers, Moscow (Moskovskiy Institu inzhenerov zheleznodorozhnogo transporta) TITLE: Vortex near the free surface SOURCE: International Symposium on Applications of the Theory of Functions in Continuum Mechanics. Tiflis, 1963. Prilozheniya teorii funktsiy v mekhanike sploshnoy sredy. t. 2: Mekhanika zhidkosti i gaza, matematicheskiye metody (Applications of the theory of functions in continuum mechanics. v. 2: Fluid and gas mechanics, mathematical methods); trudy simpoziuma. Moscow, Izd-vo Nauka, 1965, 229-235 TOPIC TAGS: vortex flow, underwater wing, fluid surface, boundary layer suction, ideal fluid, incompressible fluid, weightless fluid ABSTRACT: Fundamental works on the theory of a submerged wing assume that the free surface differs little from the horizontal level of an unperturbed fluid. This approach a priori excludes the application of the theory to the case of small submersions by means of an explicit Card 1/2

L 04882-67

ACC NR: AT6016794

solution of at least a simplified problem. In the present paper a solution is found for the flow of an ideal, incompressible, weightless fluid with a free surface past vortices. The flow is bounded at the bottom by a solid horizontal wall. It is noted that hain (where h is depth) is independent of the flow rate (q/2). Without disrupting the flow pattern the vortex cannot be closer to the free surface than 2 vo (where vo is flow rate, is circulation). This is an important fundamental difference between a nonlinear problem and its linearized approximation, since in the latter case the vortex may be located as close to the free surface as desired. The fact of the existence of hmin in the real case of an underwater wing corresponds to the beginning of air suction, i.e., the appearance of cavitation when the wing approaches too close to the free surface. Orig. art. has:: 17 formulas and 6 figures.

ORIG REF: 005/ OTH REF: 003 SUBM DATE: 13Sep65/ SUB CODE: 20/

 VH, H_j Neuro-humoral Changes in Reflexogenic Hypertension. (К вопросу о нейро-гуморальных сдвигах bilateral resection of the neuro-receptors in the arch of М. І. GUREVICH. Архив Патологии [Агки. Раго!] 12. Hypertension was induced in rabbits by means of carpine were studied. The adrenergic activity of the при рефлексогенной экспериментальной гипертоpulse, and pupillary reactions to adrenaline and pilofrogs, and cholinergic activity on eserinized back muscles The results demonstrated that such induced hypertension Lension L. Cronne the aorta and the carotid sinuses. Blood pressure, of leeches. Cholinesterase was estimated by titration. is associated with an increase in the sympathicomimetic The author concludes that increase in sympathetic tone blood was measured biologically on isolated hearts of properties of the blood, which is accounted for to a large plays an important part in the pathogenesis of such hyperextent by the presence of adrenaline-like substances. Abstracts of World Medicine のでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmのでは、100mmの No. 1, 36-40, 1950. 13 refs. Vol 8 HZZ)

GURRVICH, M.I., kand.med.nauk

Comparison of neurohumoral shifts in reflexogenic and renal forms of experimental hypertension. Medych.zhur. 20 no.3:9-20 '50.

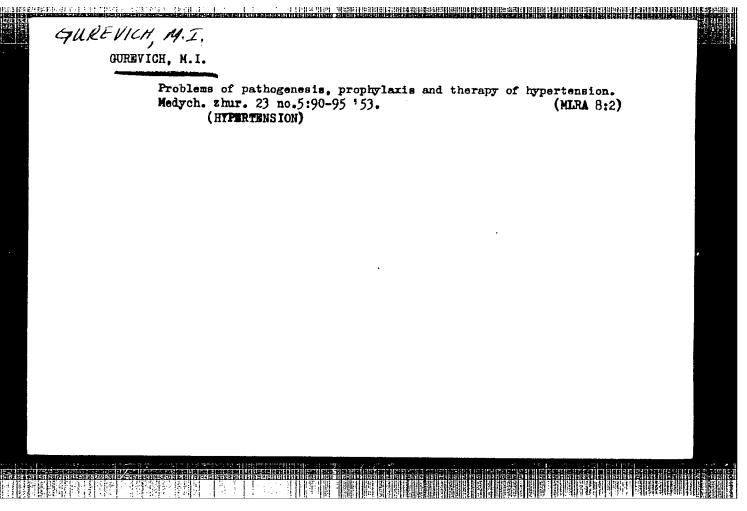
1. Z viddilu eksperimental'noi patologii (zaviduvach - chlenkorespendent ANN SRSR prof. M.M.Corev) Institutu eksperimental'noi biologii i patologii ia. akad. 0.0.Bogomol'tsya Ministerstva okhoroni zdorov'ya URSR (direktor - prof. 0.0.Bogomolets')

(HYPERTENSION) (BODY FLUIDS) (REFLEXES)

GUREVICH, M.I.

Heuro-husoral changes in experimental renal hypertension. Arkh. pat.,
Moskva 13 no.4:23-27 July-Aug 1951. (CLML 21:2)

1. Of the Department of Experimental Pathology (Head -- Prof. N. N.
Gorev, Corresponding Member of the Academy of Medical Sciences USSR).
Institute of Experimental Biology and Pathology imeni Academician A. A.
Bogomolets, Ministry of Public Health Urrainian SSR.



CIA-KUP86-00513R000617420009 GOREV, M.H.; GUREVICH, M.I. Characteritsics of the functional state of the central nervous system in hypertension. Medych.shur.24 no.2:35-41 154. (MLRA 8:10) 1. Institut fiziologii im. 0.0. Bogomol'tsya Akademii nauk URSR (laboratoriya fiziologii krovoobigu i dykhannya) ta Kyiva kiy medichniy stomatologichniy institut (kafedra patologichnoy fiziologii) (HYPERTENSION, physiology, CNS) (CENTRAL NERVOUS SYSTEM, in various diseases, hypertension)

> CIA-RDP86-00513R000617420009-2" APPROVED FOR RELEASE: 03/20/2001

GUREVICH, M.I.; TKACHUK, V.P.

Capillary changes in experimental hypertension. Medych.shur. 24 no.6:78-82 154. (MLRA 8:7)

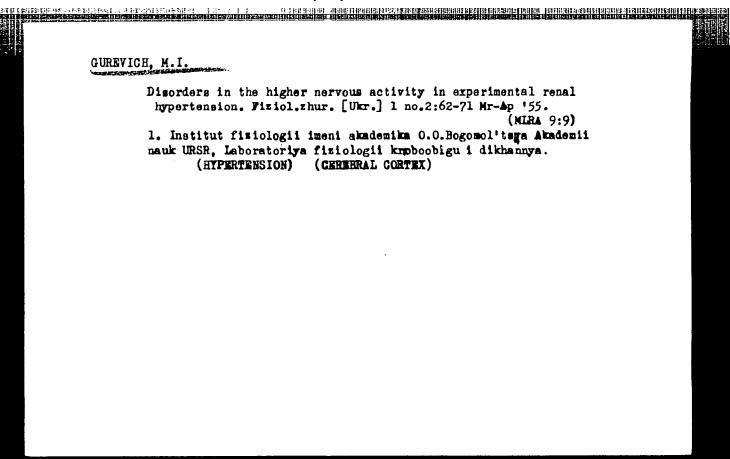
1. Institut fisiologii im. 0.0.Bogomol'teya Akademii nauk URSR. (HYPERTENSICH, experimental, capillary changes) (CAPILLARIES, in various diseases, exper. hypertension)

GURRVICH, M.I.; IL'CHEVICH, M.V.

Materials on the problem of the effect of prolonged sleep on the course of clinical and experimental hypertension. Fiziol.zhur. (Ukr.) 1 no.1:40-45 Ja-F '55. (MLRA 9:9)

1. Institut fiziologii imeni akademika 0.0.Bogomol'tsya Akademii nauk URSR, Laboratoriya fiziologii krovoobigu i dikhannya.

(HYPERTENSION) (SLEEP--THERAPEUTIC USE)



GUREVICA ME USSR/Medicine - Physiology

FD-E508

Card 1/2

Pub 17-7/20

Author

: Gurevich, M. I.

Title

: On the functional state of the central nervous system in experimental hypertension. Report 1: The effect of medicated sleep on the chronaxy of muscles in experimental hypertension

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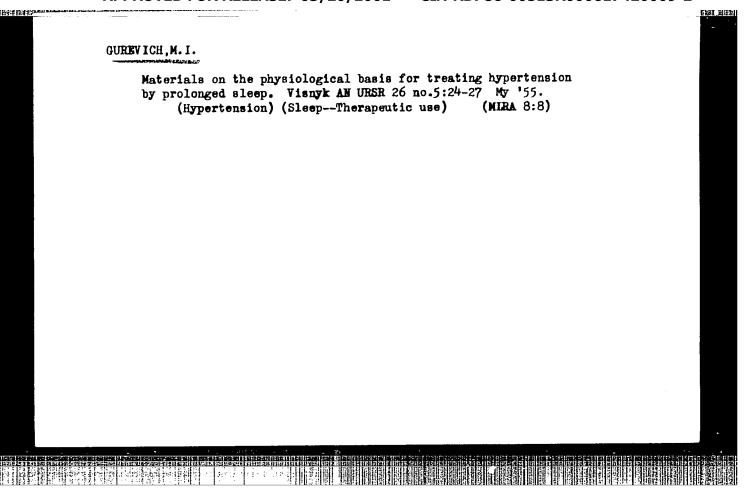
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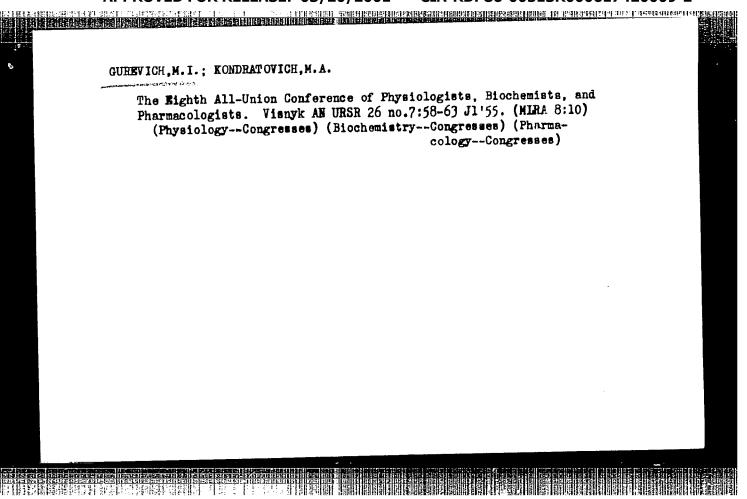
t

: Seeks experimental evidence to justify the view that the focal point of stimulation in the subcortical region of the brain evidenced in experimental hypertension (v.N.N. Gorev, "Nervous Regulation and Respiration", published by Academy of Medical Science: USSR, 1952) is linked with a breakdown in the dynamics of the basic cortical processes. In connection with the above, put rabbits with a reflexogenic form of experimental hypertension under prolonged, medicated sleep, using it as a method for pathogenic analysis of experimentally produced, protracted electron of the arterial blood pressure. Evaluated the functional state of the C. N. S. by chronaximetry. Tables; graphs. Fourteen references, 12 of them USSR (9 since 1940).

Institution : Laboratory of the Physiology of Circulation and Respiration (Head - Prof. N. N. Corev, Member of the Academy of Medical Sciences USSR) of the Institute of Physiology imeni A. A. Bogomolets (Director - Prof. A. M. Vorob'yev, Corresponding Member of the Academy of Sciences UKSSR) of the Academy of Sciences UKSSR, Kiev.

Submitted : March 20, 1954 by N. N. Gorev, Member of the Academy of Medical Sciences USSR





Abstr No 50822 — in rabbits with a tabent important of 10 ml. of 130, trethane steep is produced (15 hr. in 24 haring the anomal 15 hays — in mound tabbits there is seen a follout of attang the mound of the large structure is the seen of the mound tabbits there is seen a follout of attang the interfer in the seen of the following the following the following the seen of the following the foll	GUREVICH	obscussie of muscle in	condition of the confunt nervous refers. I. Effect of therapeutic researchmental hypertonsion. Il 1	system in ep en the	
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GUREVICH, M.I.; KVITNITSKIY, M.Ye.

Electrocardiogram in healthy dogs. Fiziol.zhur. [Ukr.] 2 no.1:42-46
Je-F'56.

1. Institut fiziologii imeni O.O.Bogomol'taya Akademii nauk URSR.
Iaboratoriya fiziologii krovoobigu i dikhannya.

(DOGS--PHYSIOLOGY) (ELECTROCARDIOGRAPHY)

CIA-RDP86-00513R000617420009-2 "APPROVED FOR RELEASE: 03/20/2001

GURETINE 1 1

REPORTED BY THE PROPERTY OF TH

NSSR/Human and Animal Physiology - Circulation.

V-4

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 18185

Author

: M.I. Gurevich

Inst

Title

: The Characteristics of the Cardiovascular Component of the Conditioned Feeding Response in Animals with Experi-

mental Hypertension.

Orig Pub

: Fiziol. zh., 1956, 2, No 6, 122-128

Abstract

In strong, even-tempered, active dogs the cardiovasculer component of the conditioned-reflex response is stable and stereotyped. In weak dogs and in those in which the excitatory process predominates over the inhibitory, changes in arterial pressure and cardiac rhythm were more pronounced and unstable. Alteration and "encounter" produced transient disturbances in higher nervous activity and a short-term increase in blood pressure as well as disruption of the power relationships of the

Card 1/2

USSR ARPROYED FOR RELEASE: 03/20/2001. CIA-RDP86-00513R000617420009-2

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18185

cardiovascular component. In the case of short-term and chronic forms (reflex and renal) of experimental hypertension, the cardiovascular component of the feeding reflex was strengthened, especially in the initial period of the development of hypertension. A disturbance was noted in the power relationships of the cardiovascular component and of the salivary component. A common mechanism was established for disturbances to the central nervous system associated with various forms of experimental hypertension.

Card 2/2

GUREVICH, M. I., Doe of Med Sci -- (diss) "Experimental data on the functional status of the higher segments of the central nervous system during hypertension." Kiev, 1957, 16 pp (Department of Biological Sciences, Academy of Sciences UkSSR), 100 copies (KL, 35-57, 108)

USSR/Human and Animal Physiology (Normal and Pathological).

T-4

Blood Pressure. Hypertension.

Abs Jour

: Ref Zhur - Biol., No 16, 1958, 74781

Author

: Gorev, N.N., Gurevich, M.I.

Inst

Title

: On the Condition of the Higher Sections of the Central

Nervous System During Experimental Hypertension.

Orig Pub

: V sb.: Probl. fiziol. tsentr. nervn. sistemy, M.-L.,

AN SSSR, 1957, 200-206.

Abstract

In dogs, reflexogenic hypertension (by means of reaction of the pressoreceptor apparatus of the aortic arch and of the carotid sinus) and renal hypertension (narrowing of the lumen of the renal artery) were obtained. In I the primary phase of hypertension, there was a weakening of the process of the internal inhibition, and later even of the process of stimulation. Study of the dynamics of unconditioned food reflexes and subordinated chronaxy found

Card 1/2

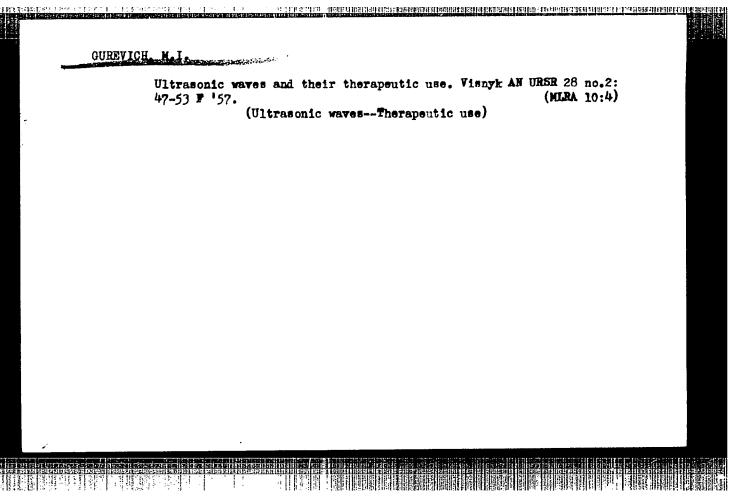
- 60 -

GUKEVICH, M. I., kand.med.nauk; MAN'KOVSKIY, N.B., kand.med.nauk; PENEK, N.V.

Therapeutic use of ultrasound in treating nervous diseases. Vrach. delo no.10:1013-1017 0 '57. (MIRA 10:12)

l. Laboratoriya krovoobrashcheniya i dykhaniy: (rukovoditel' - deystv. chlen AMN SSSR, prof. N.N.Gorev), otdel eksprimental'noy i klinicheskoy nevrologii (zav. - chlen-korr. AN USSR prof. A.F.Makarchenko) Instituta fiziologii im. A.A.Bogomol'tsa AN USSR i klinika nervnykh bolezney (zav. - deystv. chlen AMN SSSR, prof. B.N.Man'kovskiy) Kiyevskogo meditsinskogo instituta.

(ULTRASONIC WAVES-THERAPEUTIC W VES) (NERVOUS SYSTEM-DISEASES)



GUREVICH, Moisey Isayevich [Hurevych, M.I.]; KONDRATOVICH, Marat Aviatovich [Kondratovych, M.A.]; MAKARCHENKO, O.F., prof., otv.red.; NEHUSH, A.I., red.izd-va; KOLOMIYCHUK, V.O., tekhn.red.

[Medical science against religious prejudice] Medychna nauka proty religiinykh zaboboniv. Kyiv, Vyd-vo Akad.nauk URSR, 1958.

144 p. (MIRA 12:4)

1. Chlen-korrespondent AN USSR (for Makarchenko).
(MEDICINE AND RELIGION)

GURRYICH, M.I., CHERKASSKIY, L.P. (Kiyev)

Effect of ultrasonic oscillations on cardiac function in frogs.
[with summary in English]. Pat.fisiol. i eksp.terap. 2 no.3
40-43 Ny.Je '58

1. Is laboratorii krovoobrashcheniya i dykhaniya Instituta
fisiologii AN USSR imeni A.A. Bogomol'tes i patofisicheskoy
laboratorii Ukrainskogo nauchno-issledovatel'skogo instituta
tuberkulesa imeni P.G. fanovskogo (rukovoditel' - deystvital'nyy
chlen AMM SSSR prof. M.N. Gorew).

(HEART. physiology.
eff. of ultrasonics infrogs (Rus))

(ULTRASONICS, effects.
on heart in frogs (Rus))

GURNVICH, M.I.; KVITNITSKIY, M.Yo. [Kvitnyts'kyi, M.IE.]

Chenges in the functional state of the myocardium and disorders of coronary blood circulation in dogs with experimental hypertension.

[with summary in English]. Fiziol.zhur. [Ukr.] 4 no.1:82-89 Ja-F'98.

(MIRA 11:3)

1. Institut fiziologii im. 0.0.Begomol'tsys Akademii nauk URSR, laboratoriya fiziologii kravoobigu i dikhannya.

(HYPERTENSION)

(BLOOD--GIRGULATION, DISORDERS, OF)

THE RESIDENCE OF THE PROPERTY GUREVICH, M.I. [HUREVYCH, M.I.] Use of ultrasonic vibrations in medicine and biology. Fiziol. zhur. [Ukr.] 4 no.3:408-420 My-Je '58 (MIRA (MIRA 11:7) 1. Institut fiziologii im. 0.0. Bogomol'tsya AN URSR, laboratoriya fiziologii dikhaniya i krovobigu. (ULTRASONIC WAVES)

> CIA-RDP86-00513R000617420009-2" **APPROVED FOR RELEASE: 03/20/2001**

DYACHENKO, S.S., BERNASOVSKAYA, Ye.P. [Bernasovs'ka, IE.P], GUREVICH, M.I.
[Hurevych, M.I.], ANCHEVSKAYA, M.S. [Anchevs'ka, M.S.], IL'CHEVICH, H.V.,
[Il'chevych, M.V.]

Studying the effect of ultrasonic vibrations on some microorganisms. Report No.1: The destructive effect of ultrasound [with summary in English]. Fiziol.zhur. Ukr. 4 no.5:612-623 S-0 '58 (MIRA 11:11)

l. Institut fiziologii im. A.A. Bogomol'tsa AN USSR, laboratoriya krovoobrashcheniya i dykhaniya i Kiyevskiy institut epidemiologii i mikrobiologii, laboratoriya mikrobiologii.

(ULTRASONIC WAVES PHYSIOLOGICAL EFFECT)

(BACTERIA)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617420009-2"

GOREV, N.N., prof.; GUREVICH, M.I. (Kiyev)

Some problems in the pathogenesis of myocardial infarct according to experimental data, Fat.fiziol. i eksp.torap. 3 no.6:3-13 N-D '59.

1. Deystvitel 'nyy ohlen AMN SSSR (for Gorev)

(MYOGARDIAL INFRACT etiology)

BALITSKIY, K.P. [Balyts'kyi, K.P.]; GUREVICH, M.I. [Hurevych, M.I.]

Antitumor vaccination. Fiziol. zhur. [Ukr.] 5 no.5:650-655 S-0 159

(MIRA 13:3)

1. Institut fiziologii in. A.A. Bogomol'tsa AN USSR, laboratoriya kompensatornykhi zashchitnykh funktsiy i laboratoriya fiziologii krovoobrashcheniya i dykhaniya.

(CANCER) (ULTRASONIC WAVES -- TRETAPEUTIC USE)

BALITSKIY, K.P. [Balyts'kyi, K.P.], kand. med. nauk; GUREVICH, M.I., doktor med. nauk

Effect of ultrasound on the development of experimental carcinoma.

Visnyk AN URSR 30 no.8:56-59 Ag '59. (MIRA 13:1)

(ULTRASONIC WAVES--PHYSIOLOGICAL EFFECT)

(GANGER)

ः राज्यन्त्राम् आन्त्रस्थानम् स्थानस्थानस्थानस्थानस्य स्थानस्थानस्य स्थानस्य स्थानस्य स्थानस्य स्थानस्य स्थानस्य

GUREVICH, Moisey Issyevich; GORKV, N.N., otv.red.; YANKOVSKAYA, Z.B., red.izd-va; SKLYAROVA, V.Ye., tekhn.red.

[Investigation of the pathogenesis of arterial hypertension]
Issledovaniia patogeneza arterial noi gipertonii. Kiev, Izd-vo
Akad.nauk USSR, 1960. 115 p. (MIRA 14:2)

 Deystvitel nyy chlen AMN SSSR (for Gorev). (HYPERTENSION)

BALITSKIY, K.P.; GUREVICH, M.I. (Kiyev)

Influence of ultrasound on the biological properties of malignant tissue. Pat. fiziol. i eksp. terap. 4 no.3:31-35 My-Je '60.

(MIRA 13:7) 1. Iz laboratorii kompensatornykh i zashchitnykh funktsiy (zav. - akad. AN USSR P.Ye. Kavetskiy) i laboratorii krovoobrashcheniya i dykhaniya (zav. - deystvitel nyy chlen AMN SSSR N.N. Gorev)
Instituta fiziologii imeni A.A. Bogomol'tsa AN USSR.
(ULTRASONIC WAVES--PHYSIOLOGICAL EFFECT) (CANCER)

(CANCER)

CIA-RDP86-00513R000617420009-2" APPROVED FOR RELEASE: 03/20/2001

KAVETSKIY, R.Ye., akademik; GUREVICH, M.I., doktor meditsinskikh nauk

Nikolai Nikolaevich Gorev; on his 60th birthday. Pat. fiziol. i
eksp. terap. 4 no.3:92-93 My-Je '60. (MIRA 13:7)

1. Akademiya nauk USSR, (for Kavetskiy).
(GOREV, NIKOLAI NIKOLAEVICH, 1900-)

GUREVICH, M.I. [Harevych, M.I.]; SEROTINA, M.F. [Syrotina, M.F.]

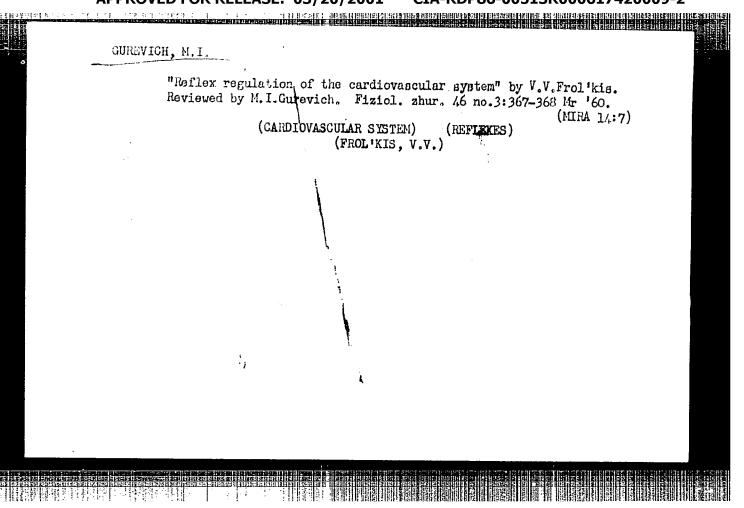
Effect of ultrasonic vibrations on the blood. Fiziol.zhur. 6 no.1:73-78 Ja-F '60. (MIRA 13:5)

1. Institut fiziologii im. A.A. Bogomol'tsa AN USSR, laboratoriya fiziologii krovoobrashcheniya i dykhaniya. (ULTRASONIC WAVES--PHYSIOLOGICAL EFFECT) (BLOOD)

KAVETSKIY, R.Ye. [Kavets'kyi, R.IE.]; GUREVICH, M.I. [Hurevych, K.I.]

Sixtieth birthday of N.N.Gorev, member of the Academy of Medical Sciences of the U.S.S.R. Fiziol. zhur. [Ukr.] 6 no.3:418-420 My-Je '60. (MIRA 13:7)

(GOREV, NIKOLAI NIKOLAEVICH,1900-)



GUREVICH, M.I. [Hurevych, M.I.]

Experimental investigation of the pathogenesis of arterial hypertension. Fiziol. zhur. [Ukr.] 7 no.3:385-394 Ny-Je '61.

(MIRA 14:5)

1. Laboratoriya fiziologii krovoobrashcheniya Instituta fiziologii im. A.A.Bogomol'tsa AN USSR, Kiyev.

(HYPERTENSION)

VAYSMAN, G.A.; GUREVICH, M.I.; SKVI:SKAYA, Yo.S.

Study on the stability of solutions of some medicinal substances under the action of ultrasonics. Apt. delo 10 no.5:11-15 S-0 '61.

(MIRA 14:12)

1.Kiyevskiy institut usovershenstvovaniya vrachey i Institut fiziologii imeni A.A.Bogomol'tea AN USSR.

(ULTRASONIC TESTING) (DRUGS)

(SOLUTIONS (PHARMACY))

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000617420009-2

CANALAN AND HOLDER

39855

S/238/62/008/002/001/004

1015/1215

AUTHOR:

27.1150

Vyshatina, O. I., Gurevych, M. I. and Chang-Ch'i

TITLE:

Changes in ECG in normal animals and in animals with experimental hypertension

following the introduction of aminazine

PERIODICAL: Fiziolohichnyy zhurnal, v. 8, no. 2, 1962, 198-204

TEXT: The effect of aminazine on the cardio-vascular system has been insufficiently studied until now ECG studies on 6 rabbits in 3 experimental series show that aminazine brought about a marked decrease in the R-wave, an increase in the T-wave, and a certain increase in the ST-interval. In cases of experimental hypertension in animals the untoward effects of aminazine could be related to myocardial hypertrophy and coronary insufficiency, whereas in normal animals aminazine affected the metabolic processes in the myocardium resulting from extracardial influences upon the heart. There are 3 figures.

ASSOCIATION: Laboratoriya fiziologii krovoobigu Institutu fiziologii im O. O. Bogomol'tsya Akademii

nauk URSR, (Laboratory of Circulation Physiology, Institute of Physiology im. O. O

Bogomolets, Academy of Sciences UKr SSR) Kiev

SUBMITTED:

July 20, 1961

Card 1/1

X

GUREVICH, M.I.; KVITNITSKIY, N.Ye.; KOCHEMASOVA, N.G.; POVZHITKOV, M.M.;

Experimental study of the pathogenesis of myocardial infarction. Vrach.delo no.11:20-24 N *62. (MIRA 16:2)

l. Laboratoriya fiziologii krovoobrashcheniya (rukovoditel - doktor med.nauk M.I. Gurevich) Instituta fiziologii imeni A.A. Bogomol tsa AN UKrSSR.

(HEART—INFARCTION) (BLOOD—CIRCULATION, DISORDERS OF)

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617420009-2 是一种大型工作。1915年,1915年,1915年,1915年,1915年,1915年,1915年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,191

MAKARCHENKO, A.F., akademik, otv. red.; SIROTININ, N.N., zam. otv. red.; KOLPAKOV, Ye.V., prof., red.; LAUER, N.V., doktor med. nauk, red.; GUREVICH, M.I., doktor med. nauk, red.; KOLCHINSKAYA, A.Z., kand. med. nauk, red.; YANKOVSKAYA, Z.B., red. izd-va; BEREZOVSKAYA, D.N., tekhn. red.

> "Oxygen deficiency; hypoxia and adaptation to it] Kislorodnaia nedostatochnost; gipoksiia i adaptatsiia k nei. Kiev, (MIRA 17:2) Izd-vo AN USSR, 1963. 609 p.

1. Akademiya nauk URSR, Kiev. Instytut fiziologii. 2. Akademiya nauk Ukr. SSR (for Makarchenko). 3. Deystvitel'nyy chlen AMN SSSR (for Sirotinin).

CIA-RDP86-00513R000617420009-2"

APPROVED FOR RELEASE: 03/20/2001

GUREVICH, M.1.; deleve to a., NONCOTOLO, None, account the testing thermal resistons. Factor and the Analysis of 1188 165.

1. From the Laboratory of Circulatory Physiclogy, and Degome'sts Institute of Physiclogy, scadeny of Sciences. of the Chrain's A. S.S.R., Klyev.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617420009-2"

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GUREVICH, M.I. [Hurevych, M.I.]; KHOMUTOVSKIY, O.A. [Khomutovs'kyi, O.A.]
OLEYNIKOVA, T.N. [Oleinykova, T.M.]; BRATUS; V.V.

State of some submicroscopic structures and ribonucleoproteins of the heart muscle in experimental myocardial infarction.
Fiziol. zhur. [Ukr] 9 no.5:622-631 S-0.63 (MIRA 17:4)

l. Laboratoriya fiziologii krovosbrashcheniya i morfologii nervnoy sistemy Instituta fiziologii imeni A.A. Bogomol'tsa AN UkrSSR, Kiyev.

GUREVICH, M.I.; FOVEHETKOV, M.M.

An experimental study of some components of the pathogenesis of myocardial infraction. Cor Vasa 6 no.4:297-307 164.

1. Bogomolets Institute of Physiology, Academy of Science, Kiev, U.S.S.R.

GUREVICH, M.1.; POVZHITKOV. M.M.

Significance of changes in the vascular tonus in the development of hemodynamic disorders in experimental miocardial infarct. Biul. eksp. biol. i med. 58 no.8:22-26 Ag '64.

(MIRA 18:3)

1. Laboratoriya fiziologii krovoobrashcheniya (rukovoditel' - doktor med. nauk M.I. Gurevich) Instituta fiziologii imeni A.A. Begomol'tsa (dir. - akademik AN UkrSSR A.F. Makarchenko) AN UkrSSR, Kiyev. Submitted Nov. 22, 1963.

GUREVICH, M. I.

"Impact of a Plane Plate "gainst the Surface of the Fluid in a Half-Circular Channel," Prik. Mat. i Mekh., No.2, 1939

GUREVICH, M. I.

"Mass Adjoining a Lattice Constructed of Rectangles," Prik. Mat. 1 Nekh.,
No.2, 1940

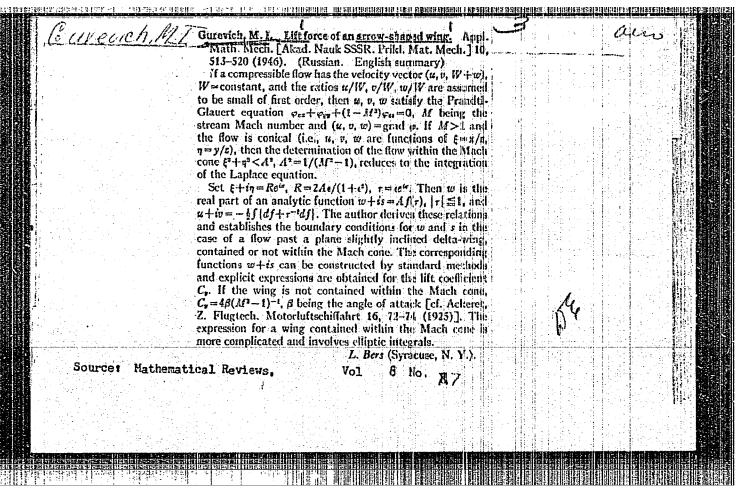
GUREVICH, M. I.

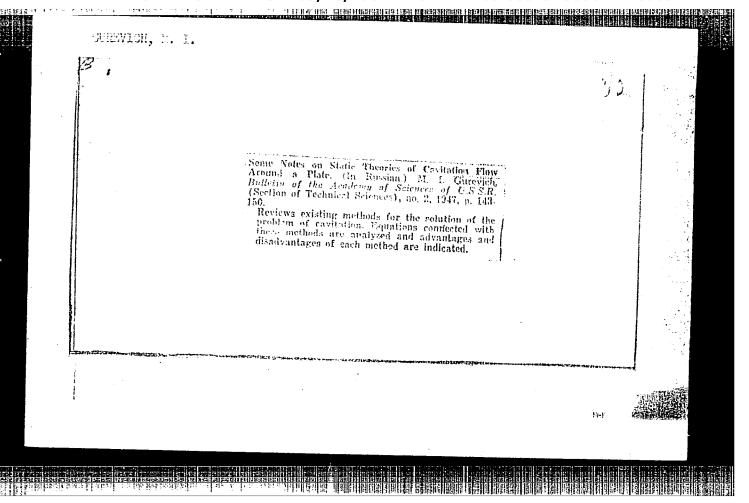
USSR

N. Ye. Zhukovskiy Central Aerohydrodynamics Inst., (-1946-)

"symmetrical Flow with Cavitation Over a Flat Plate Placed Between Parallell walls."

Iz. Ak. Nauk, Ofdel. Tekh. Nauk, No. 4, 1946





GUREVICA, M. I

Gurevich, M. I. Flow past an axi-symmetrical semi-body of finite drag. Appl. Math. Mech. [Akad. Nauk SSSR. Prikl. Mat. Mech.] 11, 97-104 (1947). (Russian, English summary)

An axially-symmetric flow is defined by the velocity potential $\varphi(r,\theta) = A(r^{\alpha}P_{n}(\cos\theta) - 1) - Ur\cos\theta$, where r and θ are polar coordinates in a meridian plane and $-2\pi^{\alpha}n < 1$. The corresponding stream function is

$$\psi(r,\theta) = -A(P_n \cos \theta - P_{n+1})r^{n+1} + \frac{1}{2}Ur^2 \sin^2 \theta.$$

The streamline for $\psi(r,\theta)=0$ is used to define an axially symmetric body for which $r=r_1$ when $\theta=0$ and r=1 as $\theta\to\pi$ (except when n=2 which gives a sphere). The drag force on this class of bodies is then computed and the author finds that it is zero for $-2 \le n < 0$ and infinite for $0 \le n < 1$.

The author then attempts to find a body of finite, but positive, drag by using the velocity potential

$$\varphi(r,\theta) = \int_{-N}^{0} a(n)(r^{n}P_{n} - 1)dn - Ur\cos\theta, \qquad -2 \le -N \le 0,$$

Source: Hathematical Reviews, 1948, Vol 9,

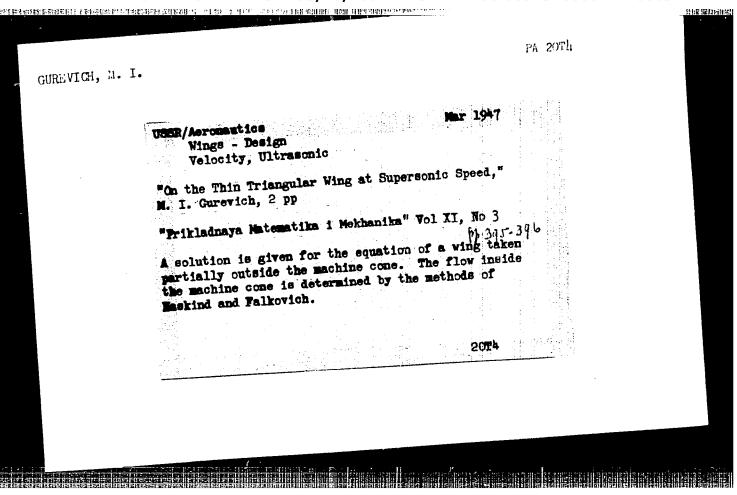
where it is assumed that (1) $P_{m,n}^{2}(x)$ directory, and (2) for some sufficiently small $\epsilon > 0$ the function a(n) does not change ugh in the interval $-\epsilon \le n \le 2$. As axially-symmetric body may be defined by the streamline $\psi(r,\theta)$ to for the stream function equality symmetric body may be defined by the streamline $\psi(r,\theta)$ to for the stream function equality could nate a and b is the drag and a and b rectnerables could nate a a nection plane, the author finds the asymptotic form of the body of $x \to +\infty$ to by

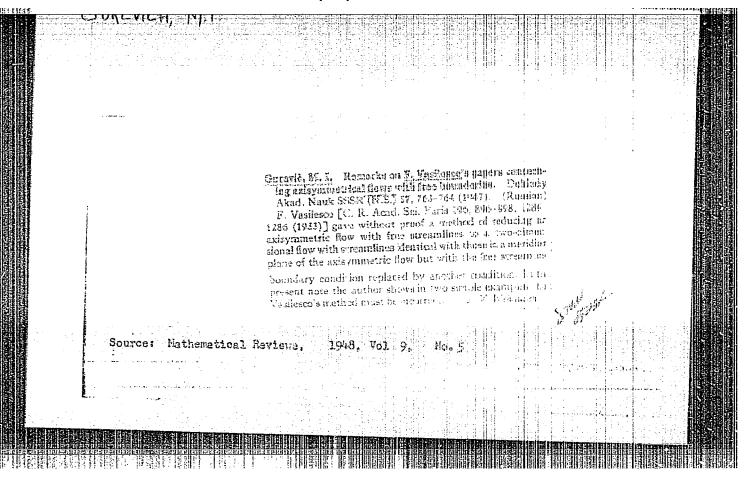
 $y \approx (8D/\rho \pi)! (|x|^2 f(\log |x|)^3) (1 - \log \log |x| / 8 \log |x|)$. The asymptotic form of a(n) as n = 0 is given by

$$a(n) = -(1/n)(D/-1/n^3)$$
4.

It is of interest to note that the day instead form of the body is identical with that obtained by M. Levillson for the asymptotic shape of an infinite enviry behind an axially symmetric body [Ann. of Math. (1) 47, 704-730 (1946); these Rev. 8 419]. J. V. Webassai (Palls Church, Mr.)

GUICEVICH, M. J.	outlined in brief, and the formulae for the function A $f(t) = AF(t)$ given for five major cases.		the plane $y = 0$. The supersonic of the flow is directed along the z-velocities u, v, w are insignificant w . The problem is reduced to the definition $Af(t)$, where t is a complete $u = \operatorname{Re} \left(\overline{Af(t)} \right)$. Properties of confliction employed further in the work as	E"Frik Mate i Mekh" Vol XI, No 2 bp 247-300	"Supersonic Flow About a Triangular Wing," M. I. Gurevich, 4 pp	USSR/Flow, Ultrasonic Feb 1947 Wing profiles	
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GUREVICH, M. I.

USSR

"Semibody of Finite Resistance in a Subsonic Flow.
Generalized Conical Supersonic Flows." Thesis for degree of Dr. Physicomathematical Sci. Sub 26 Apr 49. Inst of Mechanics, Acad Sci USSR.

Summary 82, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

GUREVICH, M. I.

USSR/Mathematics - Impact by a Jet

Jan/Feb 52

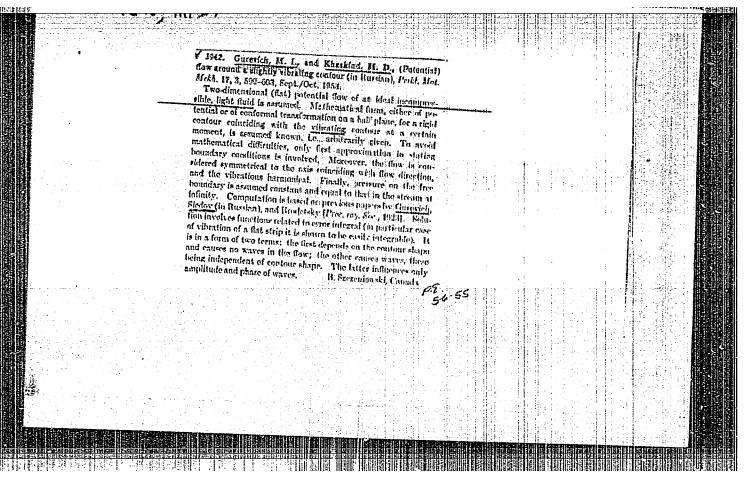
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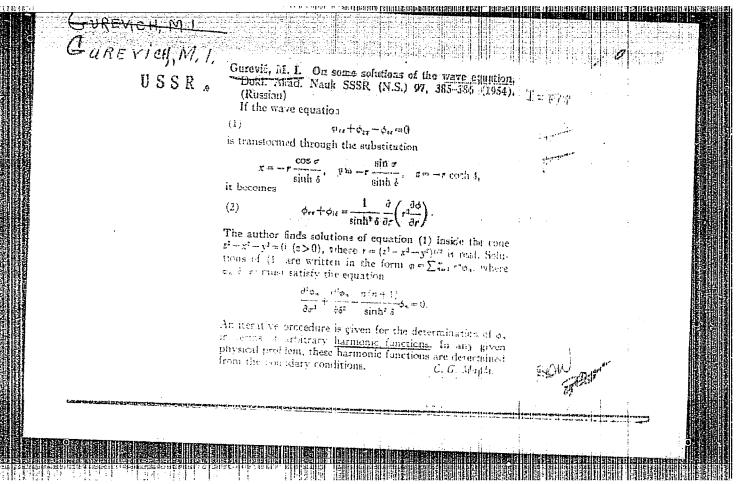
"Impact on a Plate During Circulatory Flow by a Discontinuous Jet," M. I. Gurevich, Moscow

"Prik Matemat i Mekh" Vol XVI, No 1, pp 116-118

Problem was previously solved by N. Ye. Zhukovskiy ("Impact of Two Balls, One Swimming in Liquid" 1948), by M. A. Lavrent'yev and M. V. Keldysh ("Solution of Problems Concerning Impact by Water," Trudy TsAGI" No 152, 1935) and L. I. Sedov ("Plane Problems of Hydrodynamics and Aerodynamics" 1950). Gurevich solves problem in the case where a mass is added to curvilinear plate on basis of previously mentioned methods. Received 6 Oct 51.

203T66





SOV/124-58-11 12550

Translation from: Referativnyy zhurnal, Mekhanika 1958, Nr 11, p 86 (USSR)

AUTHORS: Gurevich, M. L., Pykhtevev, G. N.

TITLE: On Some Methods of the So

On Some Methods of the Solution of Theoretical Problems Concerning a Heavy Liquid Jet (O nekotorykh metodakh resheniya zadach teorii

struy tyazheloy zhidkosti)

PERIODICAL: Tr. Mosk, tekhn, in ta rybn, promesti i kheva, 1957, Nr 8,

pp 48-65

ABSTRACT:

Presentation of a paper by Marchi (Marchi, Enrico, Ann. mat. pura ed appl., 1953, Vol 35, pp 327-341; RZhMekh, 1955, Nr 1 abstract 154), together with a description of the Woronetz method (Worcnetz Constantin, C. r. Acad. Sci., 1953, Vol 236, Nr 3, pp 271-273; RZh Mekh, 1953, Nr 1, abstract 144). The authors adduce a solution of the Marchi problem by means of the Woronetz method. A detailed computation is given for a single case, which shows an almost identical coincidence of the numerical results obtained by the Marchi method and the Woronetz method. This is followed by a brief explanation of the well-known solution by N. Ye, Kochin relative to the flow of a heavy liquid through a spillway outlet. Thereupon the same problem

Card 1/2

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v On Some Method of the Solution of Theoretical Problems Concerning a Heavy Liquid

is solved by the Marchi and Woronetz methods. It is shown that these approximate methods for the solution of the exact problem yield a rougher approximation than the exact solution of the linearized problem set forth by N. Ye. Kochin. The mean depth at infinity obtained by the Marchi method coincides with N. Ye. Kochin's result. The Woronetz method yields a less accurate result.

N. N. Moiseyev

Card 2/2

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	The objective of this is to show considerable normality the
	of the colution of the ann dynamics down thous in the
	. If rearisation of boundary conditions. The plane
	subsonic flow of a non-viscous gas past an infillate plate is considered. The equation of continuity is applied in
	a linearised form in accordance with Franktl-Glauert.
基	In laying down precise boundary conditions, an area of
	the flow near the leading edge is disregarded. The Lift-
摊	Mach number relationship differs from that in the Franctil-
	Glauert theory. The formulae is not applicable for
題	large Mach numbers. Bibl. 2.
罐	

10(2) AUTHOR 2 Gurevich. M. I. SOV/20-124-5-10/62 TITLE: Unsteadings of Some Jet-like Flows With Free Surfaces (Ob neustoychivosti nekotorykh struynykh techeniy so svobodnymi poverkhnostyami) PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 5, pp 998 - 1000 (USSR) ABSTRACT: By a simple example the author demonstrates that the neutral stability of the potential of velocity not necessarily entails the neutral stability of the free surface. The problem in what measure the neutral disturbances may be considered stable in the usual sense, is set aside. The present paper is concerned with the problem of an even current with the finite depth h of an ideal incompressible fluid with no gravity of the density c. The velocity of the undisturbed current is assumed to be parallel to the ground, the pressure p above the free surface to be constant and the density of the medium above the free surface to be equal to zero. The velocity potential p of the unsteady current is represented by the form Card 1/3

Unsteadiness of Some Jet-like Flows With Free Surfaces SOV/20-124-5-10/62

 $\mathcal{P} = \pi x + y$ Re $\left[C \text{ ch } k(y + h) e^{ikx} \right]$. Here C is assumed to be a function of the time to The potential p conforms to the equation of Laplace and on the ground $(9 \dot{\varphi}/\partial y)_{y=-h} = 0$ holds. The Lagrange integral for the free surface is then written down. The condition vC of $k(y + h)e^{ikx} + Cikv^2$ of $k(y + h)e^{ikx}$ = 0; $C = \frac{\partial \mathcal{L}}{\partial t}$ holds for on the free surface. $C = C e^{-ikvt}$ results after some calculations. The velocity potential y is neutrally stable in the sense of Fox and Morgan. The condition that the fluid parts do not leave the free surface $y = \eta(t,x)$ is ther written down. The function $\eta(t,x)$ contains secular structures and the free surface is unstable. Examples may be mentioned to show that the velocity potential and the elevations of the free surface are simultaneously neutrally stable. To facilitate matters the author examines a current of infinite dephts with a horizontal free surface and he also considers the capillary forces. A vacuum is assumed underneath the current. This problem is an exception to the wellknown problem of stability of the dividing line of two mediums with different densities. The capillary forces probably repress

Card 2/3

Unsteadiness of Some Jet-like Flows With Free Surfaces SOV/20-124-5-10/62

the secular structures of n not only in the examined example but also in more general cases. There are 1 figure and

2 references; 1 of which is Soviet.

ASSOCIATION: Moskovskiy tekhnicheskiy institut rybnoy promyshlennosti i

khozyaystva im. A. I. Mikoyana (Moscow Technical Institute

for the Fisheries Industry and -Economy imeni A. I. Mikoyan)

PRESENTED: November 10, 1958, by L. I. Sedov, Academician

SUBMITTED: November 5, 1958

Card 3/3

GUREVICH, M. I. (Moseow)

"The Theory of Liquid Streams (Jets) of Perfect Fluids."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

S/040/61/025/006/009/021. D299/D304

AUTHOR:

Gurevich, M.I. (Moscow)

TITLE:

Influence of capillary forces on the compression

coefficient of jets

PERIODICAL: Prikladnaya matematika i mekhanika, v. 25, no. 6,

1961, 1060 - 1067

TEXT: The small-parameter method is used to solve jet-flow problems, capillary forces being taken into account. The superposition of linearized capillary waves on jet flows is considered. As the article is of an exploratory character, only a very simple prob-lem of jet-flow theory is considered, namely plane, symmetric jet flow of an ideal, weightless, incompressible fluid (see Fig. 1); surface tension is taken into account. The width of the orifice is 2l, of the jet - 2δ , the compression coefficient is $k=\delta/\ell$. Boundary conditions on free surface: The atmospheric- and fluid pressure are denoted by p_1 and p respectively, the coefficient of surface tension - by α , the discharge by $q = v_0 \delta$, the angle between the ve-Card 1/1/4

Influence of capillary forces on ...

locity v and the x-axis - by θ ; the dimensionless quantities V and a are introduced:

$$V = \frac{v}{v_o}, \qquad a = \frac{\alpha}{\rho v_o q} = \frac{\alpha}{\rho v_o^2 \delta};$$
 (2.5)

thereupon

$$V = aq \frac{d\theta}{d\varphi} + \sqrt{1 + a^2(q \frac{d\theta}{d\varphi})^2}, \qquad (2.6)$$

where φ is the real part of the complex flow-potential. The problem can be tentatively solved by the method of successive approximations, taking a as a small parameter; below, only the first two approximations are considered. Solution of problem in the second approximation. The auxiliary function

$$\Omega = \omega - \omega_1 = \ln \frac{dw}{r_0 dz} - \ln \frac{\sqrt{1 - t} + i\sqrt{1 + t}}{\sqrt{2}}$$
(4.1)

is introduced, assuming V(t) as known on the interval -1 < t < 1 of the real axis; ω is Zhukovskiy's function. In the second approximation, one obtains:

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S/040/61/025/006/009/021 D299/D304 Influence of capillary forces on ...

$$\Omega = \ln\left(1 + a_1 \frac{\sqrt{1+t}}{\sqrt{1-t}}\right) + \frac{2i}{\pi} \sqrt{1-t^2} \vartheta (a_1, t)$$

$$\vartheta (a_1, t) = \int_0^{a_1} \frac{\ln\left[a_1 \sqrt{1+t} / \sqrt{1-t}\right]}{1-t-a_1^3(1+t)} da_1$$
(5.2),

$$\vartheta(a_{1}, t) = \int_{0}^{a_{1}} \frac{\ln \left[a_{1} \sqrt{1+t} / \sqrt{1-t}\right]}{1-t-a_{1}^{2}(1+t)} da_{1}$$
where $a_{1} = \vartheta a/2$. Using formula (5.2) and formula
$$dy = \frac{\delta}{\pi \sqrt{2}} \left[\frac{1}{\sqrt{1+t}(1+a_{1} \sqrt{1+t} / \sqrt{1-t})} + \frac{\sqrt{1-t}}{(1+t)(1+a_{1} \sqrt{1+t} / \sqrt{1-t})} \frac{2}{\pi} \sqrt{1-t^{2}} \vartheta(a_{1}, t) \right] dt$$

$$(6.4)$$

one obtains for the coefficient of compression k

$$k(a) = k(0) \left\{ 1 + \frac{\alpha}{\pi p l v_0^3} \left[2 \ln \frac{2 p l v_0^3}{\alpha (2 + \pi)} + \pi + 2 + 2 \ln 2 \right] \right\} \text{ (where } k(0) = 3 / (37 + 2),$$

$$(6.9)$$

or
$$k(a) \approx 0.611 \left\{ 1 + \frac{0.318\alpha}{\rho l v_0^4} \left[2 \ln \frac{0.39 \rho l v_0^4}{\alpha} + 6.52 \right] \right\}$$
 (6.10)

Capillary waves on surface of flow of finite depth: The above solu-Card 3/76

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Influence of capillary forces on ...

tion is not unique, as capillary waves may exist on the free surface. It is shown how capillary waves of small amplitude are superposed on the flow under consideration. Let δ denote the mean depth of the flow and v_0 the velocity at some point D (see Fig. 3). The so-

lution is sought in the form

$$\frac{\mathrm{d}w}{\mathrm{d}Z} = v_0 [1 - \varkappa \Lambda \sin \frac{\varkappa(w + \varphi_0)}{v_0}], \qquad (7.1)$$

where w is the complex potential, A, \varkappa , φ_0 are real constants, and Z = X + i Y. Neglecting quantities which are of higher order, one obtains

$$v^{\circ} = v_0 \left[1 - \varkappa A \sin \frac{\varkappa}{v_0} (\varphi + \varphi_0) \cosh \varkappa \delta \right], \quad \theta^{\circ} = \varkappa A \cos \frac{\varkappa}{v_0} (\varphi + \varphi_0) \sinh \varkappa \delta$$

hence

$$\pi \text{ th } \kappa \delta = \frac{\rho v_0^2}{\alpha} \tag{7.3}$$

Card 4/16

Influence of capillary forces on ...

Equation (7.3) determines the frequency κ , at which small sinusoidal capillary waves are possible. For comparatively small α and sufficient depth, th $\kappa\delta\approx 1$ and $\kappa\approx \rho v_0^2/\alpha\gg 1$. The function

$$\omega^{0} = \ln \frac{dw}{v_{0}dZ} = \ln V^{0} - i\theta^{0}$$
 (7.5)

is introduced, to which the term ω_+ is added which corrects the boundary conditions; thus the following Zhukovskiy function is considered

$$\omega = \omega_1 + \Omega + \omega^0 + \omega_+ = \ln V - i\theta.$$
 (7.6)

Determination of auxiliary function $\omega_+ = V_+ - i\theta_+$. This reduces to well-known problem of finding a function of a complex variable which is holomorphic in the upper half-plane, under the condition that on part of the boundary Im ω_+ is given:

$$\mathbf{e}_{+} = 0 \text{ for } \mathbf{t} < -1 \tag{8.1}$$

Card 5/7/5

Influence of capillary forces on ...

- Im $\omega_{+} = \Theta_{+} = - \chi A \cos[-\frac{\chi \delta}{\pi} \ln(1 + t) + \frac{\chi \phi_{0}}{v_{0}}] \sin \chi \delta$ for t > 1, (8.2)

and on another part of the boundary, Re ω_+ :

ln $V_+ = 0$ for -1 < t < 1. (8.6)

By means of Schwartz's formula one obtains .

$$\frac{\omega_{+}}{V t^{3}-1} = \sinh \varkappa \delta \frac{\varkappa A}{\pi} \int_{1}^{\infty} \frac{\cos [(-\varkappa \delta/\pi) \ln (1+\xi) + \varkappa \phi_{0}/v_{0}] d\xi}{V \xi^{3}-1 (\xi-t)}$$
(8.7)

There are 3 figures and 6 references: 4 Soviet-bloc and 2 non-So-viet-bloc (including 1 translation). The reference to the English-language publication reads as follows: E.B. McLeod, The explicit solution of a free boundary problem involving surface tension. Journal of Rational Mechanics and Analysis, 1955, v. 4, no. 4.

SUBMITTED: August 23, 1961

Card 6/1/2

GUREVICH, M.I. (Moskva)

Vortex near a free surface. Prikl. mat. 1 mekh. 27 no.5:899-902
S-0 '63.

(MIRA 16:10)

GUPEVICH, M.I., doktor fiziko-matematicheakikh Hauk, prof.

Generalized supersonic conical flows. Trudy MIIT no.162:150-164
(MIRA 18:3)
163.

attrice, m.r. [iarevych, M.r.)

Experimental myocardial infaryt. Fixiol. zhar. [Chr.] 9 no.h:
158-171 Mr-Ap '63.

1. laboratoriya fiziologii krovoobrashcheniya Ematitata fiziologii
im. Bogomol'tan AH WhrSSR, Riyey.

ACCESSION NR: AP5010654 AUTHOR: Gurevich, M. I. (Moscow) TITLE: Effect of aperture on resistance of a jet flowed about by an isolated stream source: Prikladnaya matematika i mekhanika, v. 29, no. 2, 1965, 355-356 TOPIC TAGS: jet stream, jet nozzle ABSTRACT: The author claims that it is generally thought that if, on the surface of a body about which flows a continuous stream, an aperture is made, then the coefficient of resistance of the body is decreased. Using computations done by others, he concludes that when a wedge is put by the aperture opposing the incidental flow the aperture increases the coefficient of resistance, though in the opposite case it decreases it. Orig. art. has: 5 figures and 1 formula. ASSOCIATION: none	face of out its had on the
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GUNEVICH, M.I.

Unsteadiness of certain flows with free surfaces. Dokl. AN
SSSR 124 no.5:998-1000 F '59. (MIRA 12:3)

1.Moskovskiy tekhnicheskiy institut rybnoy promyshlennosti i
khozyaystva imeni A.I. Mikoyana. Predstavleno akademikom L.I.
Sedovym. (Fluid dynamics)

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SHIROKOV, Sergey Ivanovich, inzh. [deceased]: Prinimali uchastiye:
ZAYETS, V.N., dotsent; GUREVICH, M.I., dotsent. SPADNIKOV, G.D.,
inzh., retsenzent; SHUL-MAN, L.G., inzh., retsenzent; DUGINA,
N.A., tekhn.red.

[Production of boilers] Koteline proizvodstvo. Izd.3. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 280 p.

(Boilers)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617420009-2"

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GUREVICH, M.I.; PYKHTEYEV, G.N.

Approximate solution to the problem of the flow of a heavy ideal incompressible liquid emerging from under a shield. PMTF no.2: 3-14 Jl-Ag 60. (MIRA 14:6)

(Hydrodynamics)

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PHASE I BOOK EXPLOITATION

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Gurevich, Maksim Isidorovich

Teoriya struy ideal'noy zhidkosti (Streamline Theory of the Ideal Fluid) Moscow, Fizmatgiz, 1961. 496 p. 6500 copies printed.

Ed.: S.N. Shustov; Tech. Ed.: S.N. Akhlamov.

PURPOSE: This book is intended for readers familiar with hydrodynamics.

COVERAGE: The author has attempted 1) to systematize the modern theory of streamlines and in so doing fill a gap in Soviet literature, and 2) to present a clear view of the theory in order to contribute to deeper studies of the theory. The classical problems in the theory are discussed in relative declassical problems of simpler problems, especially those with available numerical results, are given. The last part of the book, including material on the existence and uniqueness of solutions, as well as on supersonic streamline flows, has been

Card 1/7

written as a survey. The author thanks Leonid Ivanov Sedov, G.A. Dombrovskiy, Ya.I. Sekerzh-Zen'kovich, S. kovich, L.A. Epshteyn, and N.A. Slezkin. There are a ences: 115 Soviet (7 translations), 75 English, 30 (28 French, 10 Italian, 1 Polish, and 1 Rumanian.	vich V. Fal'- 260 refer-
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5	UBJECT: Physics	
C	ard 7/7	AD/wrc/bc 7-18-62

GUREVICH, M.I., dotsent, kand.tekhn.nauk

Heat transfer in the gasification heat exchange of an oxygen system
with a liquid pump. Trudy Ural. politekh. inst. no.108:89-96 *61.

(MIRA 16:9)

BASKAKOV, A.P.; GHREWICH, M.I.; RESHETIN, N.I.; RYSAKOV, N.F.;
SHALAYEV, N.E.; GIRSHFEL'D, V.Ya., red.; FRIDKIN, L.M.,
tekhn. red.

[General heat engineering] Obshchaia teplotekhnika. [By]
A.P.Baskakov i dr. Moskva, Gosenergoizdat, 1963. 391 p.
(MIRA 16:6)

(Heat engineering)

GUREVICH, M.L.

PHASE I BOOK EXPLOITATION

<u>(4)</u>

SOV/6201

Vsesoyuznyy s"yezd po teoreticheskoy i prikladnoy mekhanike. lst, Moscow, 1960.

Trudy Vsesoyuznogo s"yezda po teoreticheskoy i prikladnoy mekhanike, 27 yanvarya -- 3 fevralya 1960 g. Obzornyye doklady (Transactions of the All-Union Congress on Theoretical and Applied Mechanics, 27 January to 3 February 1960. Summary Reports). Moscow, Izd-vo AN SSSR, 1962. 467 p. 3000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Natsional'nyy komitet SSSR poteoreticheskoy i prikladnoy mekhanike.

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- V. V. Rumyantsev; Resp. Ed.: L. I. Sedov; Ed. of Publishing House:
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Transactions of the All-Union Congress (Cont.)

SOV/6201

PURPOSE: This book is intended for scientific and engineering personnel who are interested in recent work in theoretical and applied mechanics.

". COVERAGE: The articles included in these transactions are arranged by general subject matter under the following heads: general and applied mechanics (5 papers), fluid mechanics (10 papers), and the mechanics of rigid bodies (8 papers). Besides the organizational personnel of the congress, no personalities are mentioned. Six of the papers in the present collection have no references; the remaining 17 contain approximately 1400 references in Russian, Ukrainian, English, German, Czechoslovak, Rumanian, French, Italian, and Dutch.

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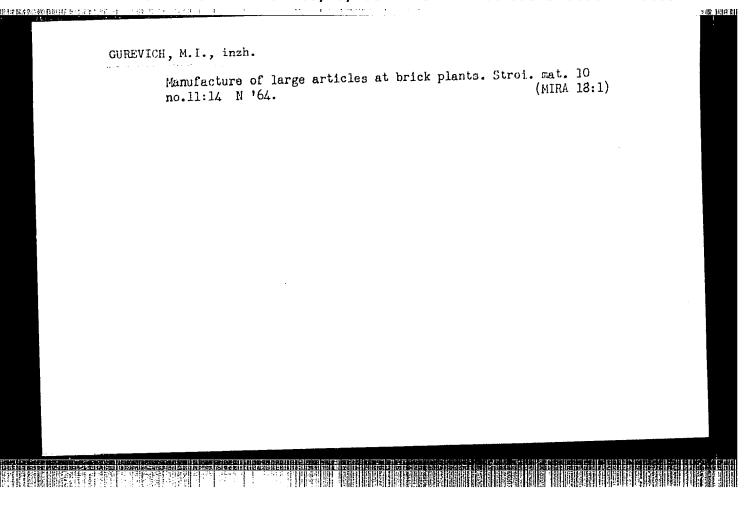
Bogolyubov, N. N., and Yu. A. Mitropol'skiy. Analytic Methods of the Theory of Nonlinear Oscillations

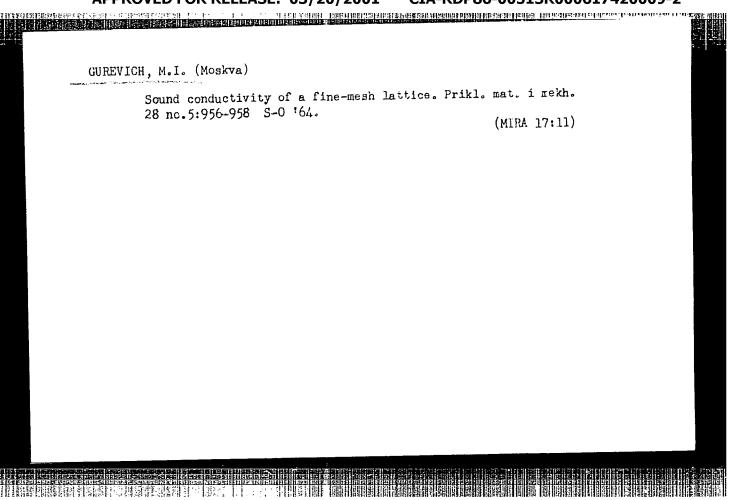
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VAYSMAN, G.A.; GUREVIGH, M.I.; SKVIRSKAYA, Ye.S.

Use of ultrasonics for the preparation of infusions and extracts from alkaloid-containing plant stock. Apt. del.o 11 nc.6:17-21 N-D*62 (MIRA 17:7)

1. Kiyevskiy institut usovershenstvovanija vrachey.

VAYSMAN, G.A. [Vaisman, H.A.]; GUREVICH, M.I.; SKVIRSKAYA, Ye.S. [Skvyrs'ka, IE.S.]; GORODINSKAYA, V.Ya. [Horodyns'ka, V.IA.]

Using ultrasonic waves in the preparation on infusions from alkaloid-and glucoside-bearing plants. Farmatsev. zhur. 18 no.4:61-65 '63. (MIRA 17:7)

l. Kafedra tekhnologii lekarstv i galenovykh preparatov Kiyevskogo instituta usovershenstvovaniya vrachey i Laboratoriya krovoobrashcheniya i dykhaniya Instituta fiziologii im. Bogomol'tsa AN UkrSSR.

PCLYAK, M.A.; BIBLEOVA. A.F.; GUREYICH Department of attaching the possibility of accelerating the vulcanization of entemphile inner tubes. Kauch.i rez. 16 no.5:30-32 My '57.

(MIRA 10:7)

1. Yaroslavakiy shinnyy zavod.

(Yulcanization) (Tires, Rubber)

5/0040/63/027/005/0899/0902

ACCESSION NR: AP4015976

AUTHOR: Gurevich, M. I. (Moscow)

TITLE: Vortex near a free surface

SOURCE: Prikl. matem. i mekhan., v. 27, no. 5, 1963, 899-902

TOPIC TAGS: vortex, free surface, underwater wing, ideal incompressible weightless fluid, conformal mapping, parametric variable, logarithmic singularity

ABSTRACT: In the basic studies on theory of underwater wings it is assumed that the free surface differs very little from the horizontal level of unperturbed fluid. This approach prevents application of the theory to the case of small submersions of a wing. Therefore it is valuable to study the properties of the case of small submersions with the help of a precise solution of the problem, even if the problem is simplified. In particular the author solves the plane problem of flow around a vortex by an ideal, incompressible, weightless fluid with a free surface. The flow is bounded from below by a hard horizontal wall. Problems closest to the one treated here have been solved by N. Simmons and A. A.

Card 1/2

ACCESSION NR: AP4015976

Nikol'skiy. Orig. art. has: 5 figures and 12 formulas.

ASSOCIATION: none

SUBMITTED: 27May63

DATE ACQ: 21Nov63

ENCL: 00

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Card 2/2

ACC NR: AT6036545 SOURCE CODE: UR/0000/66/000/000/0141/0142 AUTHOR: Gurevich, M. I.; Bershteyn, S. A. ORG: none TITLE: The role of changes in tissue partial oxygen pressure in the regulation of local blood circulation during acute hypoxia [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966] SCURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 141-142 TOPIC TAGS: hypoxia, circulatory system, oxygen consumption, blood pressure ABSTRACT: A study was made of the character and direction of local vascular reactions as mechanisms of circulatory regulation during hypoxia. Acute hypoxia was induced in chloralose-nembutal anesthetized cats by making them breathe oxygen-poor gas mixtures. Changes in pO_2 and tissue blood flow were determined in upper hind leg muscles, abdominal epidermis, and the parietal region of the cerebral cortex. Blood pressure was measured on the femoral artery. Tissue pO2 was measured by the polarographic method. Tissue blood flow was recorded thermoelectrically. A special device was used for synchronous recording of the dynamics of changes in tissue blood flow, tissue pO2, and systemic arterial pressure. **Card** 1/2

ACC NR. AT6036545

It was found that during acute hypoxia, tissue oxygen supply is not uniform. The cerebral cortex receives the best oxygen supply at the expense of skeletal muscle, skin, and some other organs, as a result of a redistribution of blood accomplished by a complex of changes in peripheral vascular tonus.

Changes in local vascular resistance and adequate systemic arterial pressure provide a blood flow pattern satisfying tissue oxygen requirements.

The mechanisms of local vascular tonus regulation in hypoxia are not yet understood and require further study. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: COMay66

Card 2/2